

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
29 April 2004 (29.04.2004)

PCT

(10) International Publication Number  
**WO 2004/035392 A3**

(51) International Patent Classification<sup>7</sup>: A47G 19/22

MN, MW, MX, MZ, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(21) International Application Number:  
PCT/US2003/032630

(22) International Filing Date: 15 October 2003 (15.10.2003)

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/418,421 15 October 2002 (15.10.2002) US

**Published:**

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(71) Applicant and

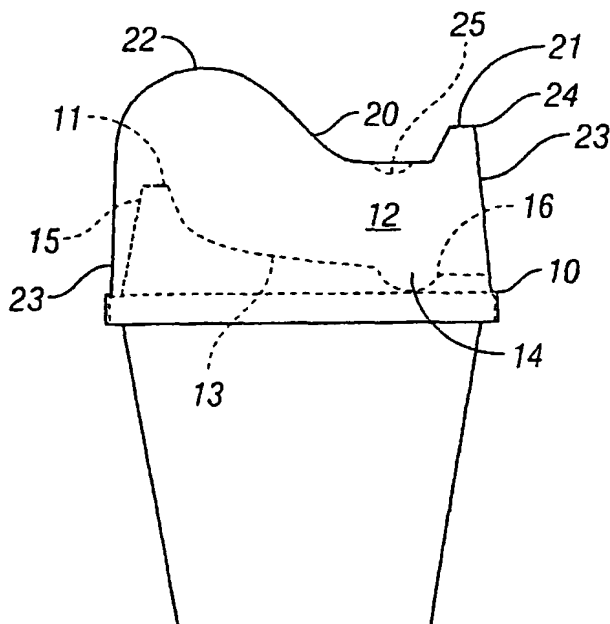
(72) Inventor: KIM, Thomas, S. [US/US]; 1243 Leverenz Road, Naperville, IL 60564 (US).

(88) Date of publication of the international search report:  
10 June 2004

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK,

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: CUP LID FOR DISPENSING HOT FLUIDS



(57) Abstract: The present invention relates to a container lid (1) for sealing a container used to hold fluids and provides a reservoir (12) for collection of a portion of bulk fluid contained in the container to speed cooling relative to the bulk fluid and allows speedier drinking of hot fluids with reduced risk of scalding. The reservoir (12) is located between a top (20) and base (10).

WO 2004/035392 A3

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/32630

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A47G 19/22

US CL : 220/717, 713, 253

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 220/253, 711, 713, 717, 719

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4,795,052 A (HAYES, JR.) 03 January 1989 (03.01.1989), see entire document.	1, 2, 4-13, 25-27
---		-----
Y		3, 14-24, 28-30
Y	US 5,738,236 A (BRUN, JR.) 14 April 1998 (14.04.1998), see entire document.	14-24, 28-30
X	US 6,305,571 B1 (CHU) 23 October 2001 (23.10.01), see entire document.	1-13, 25-27
---		-----
Y		14-24, 28-30
A	US 5,890,619 A (BELANGER) 06 April 1999 (06.04.1999), see entire document.	1-30
Y	US 4,331,255 A (FOURNIER) 25 May 1982 (25.05.1982), see entire document.	3
A	US 6,318,584 B1 (MILAN) 20 November 2001 (20.11.2001), see entire document.	1-30



Further documents are listed in the continuation of Box C.



See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

Date of the actual completion of the international search

26 March 2004 (26.03.2004)

Date of mailing of the international search report

19 APR 2004

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US

Commissioner for Patents

P.O. Box 1450

Alexandria, Virginia 22313-1450

Facsimile No. (703)305-3230

Authorized officer

Lee Young

Telephone No. 703-306-5648

*Sheila H. Veney*  
Paralegal Specialist  
Tech. Center 3700